SEQUENCE LISTING

<110> MOTODA, Yoko et al

<120> METHOD OF PRODUCING TEMPLATE DNA AND METHOD OF PRODUCING PROTEIN IN CELL-FREE PROTEIN SYNTHESIS SYSTEM USING THE SAME

<130> 1686-0108P

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<151> 2002-06-24

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<151> 2001-07-02

<160> 25

<170> PatentIn version 3.1

<210> 1
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<212> PRT
<213> Artificial Sequence

<220>
<223> native His tag

<400> 1

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Ala His Asn Lys
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<210> 2
<211> 605
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<220>
<223> double stranded linear DNA coding for Ras protein

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gcgcgctgac cattcagttg atccagaacc acttcgtaga tgagtacgac ccgactattg 120

aagactctta ccgtaagcag gttgttatcg acggtgagac ctgtttgctg gacatccttg 180

ataccgcagg ccaagaagaa tactctgcta tgcgtgatca gtatatgcgt accggcgaag 240

gcttcctgtg cgttttcgct atcaacaaca ccaaatcttt tgaagacatc catcaatacc 300

gtgaacagat caaacgtgtt aaagactctg atgacgttcc gatggttctg gttggtaaca 360

aatgcgactt ggcagcgcgt actgttgaat ctcgtcaggc tcaggatctg gctcgttctt 420

acggaattcc gtacatcgaa acctctgcta aaactcgtca aggcgttgaa gacgctttct 480

acaccttggt tcgtgaaatc cgtcagcaca agctgcgtaa gctttgatag aattccgtga 540

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ccgct 605

<210> 3
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' primer-1 universal

<400> 3
ccgaaggagc cgccaccat 19

<210> 4
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' primer-2 for Ras

<400> 4
gaaggagccg ccaccatgac cgaatacaaa ctggttgtag 40

<210> 5
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' primer universal

<400> 5
gcggataaca atttcacaca ggaaac 26

<210> 6
<211> 844
<212> DNA
<213> Artificial Sequence

<220>

<223> 5' DNA fragment comprising GST tag sequence

<400> 6
ccgctgtcct cgttcccagc ccatgattac gaattcagat ctcgatcccg cgaaattaat 60

acgactcact atagggagac cacaacggtt tccctctaga ataatttttg tttaacttta 120

agaaggagat atacatatgt cccctatact aggttattgg aaaattaagg gccttgtgca 180

acccactcga cttcttttgg aatatcttga agaaaaatat gaagagcatt tgtatgagcg 240

cgatgaaggt gataaatggc gaaacaaaaa gtttgaattg ggtttggagt ttcccaatct 300

tccttattat attgatggtg atgttaaatt aacacagtct atggccatca tacgttatat 360

agctgacaag cacaacatgt tgggtggttg tccaaaagag cgtgcagaga tttcaatgct 420

tgaaggagcg gttttggata ttagatacgg tgtttcgaga attgcatata gtaaagactt 480

tgaaactctc aaagttgatt ttcttagcaa gctacctgaa atgctgaaaa tgttcgaaga 540

tcgtttatgt cataaaacat atttaaatgg tgatcatgta acccatcctg acttcatgtt 600

gtatgacgct cttgatgttg ttttatacat ggacccaatg tgcctggatg cgttcccaaa 660

attagtttgt tttaaaaaac gtattgaagc tatcccacaa attgataagt acttgaaatc 720

cagcaagtat atagcatggc ctttgcaggg ctggcaagcc acgtttggtg gtggcgacca 780

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cacc 844

<210> 7
<211> 217
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' DNA fragment comprising His tag sequence

<400> 7
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acgactcact atagggagac cacaacggtt tccctctaga ataatttttg tttaacttta 120

agaaggagat atacatatga aaggcagcag ccatcatcat catcatcaca gcagcggcgc 180

ctccctggtg ccacgcggat ccgaaggagc cgccacc 217

<210> 8
<211> 244
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' DNA fragment comprising native His tag sequence

<400> 8
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acgactcact atagggagac cacaacggtt tccctctaga ataatttttg tttaacttta 120

agaaggagat atacatatga aagatcatct catccacaat gtccacaaag aggagcacgc 180

tcatgcccac aacaagagct ctggcgcctc cctggtgcca cgcggatccg aaggagccgc 240

cacc 244

<210> 9
<211> 652
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' DNA fragment comprising CBD

<400> 9
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acgactcact atagggagac cacaacggtt tccctctaga ataatttttg tttaacttta 120

agaaggagat atacatatgt cagttgaatt ttacaactct aacaaatcag cacaaacaaa 180

ctcaattaca ccaataatca aaattactaa cacatctgac agtgatttaa atttaaatga 240

cgtaaaagtt agatattatt acacaagtga tggtacacaa ggacaaactt tctggtgtga 300

ccatgctggt gcattattag gaaatagcta tgttgataac actagcaaag tgacagcaaa 360

cttcgttaaa gaaacagcaa gcccaacatc aacctatgat acatatgttg aatttggatt 420

tgcaagcgga gcagctactc ttaaaaaagg acaatttata actattcaag gaagaataac 480

aaaatcagac tggtcaaact acactcaaac aaatgactat tcatttgatg caagtagttc 540

aacaccagtt gtaaatccaa aagttacagg atatataggt ggagctaaag ttcttggtac 600

agcaagctct ggcgcctccc tggtgccacg cggatccgaa ggagccgcca cc 652

<210> 10
<211> 511
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' DNA fragment comprising Thioredoxin sequence

<400> 10
ccgctgtcct cgttcccagc ccatgattac gaattcagat ctcgatcccg cgaaattaat 60

acgactcact atagggagac cacaacggtt tccctctaga aataattttg tttaacttta 120

agaaggagat atacatatga gcgataaaat tattcacctg actgacgaca gttttgacac 180

ggatgtactc aaagcggacg gggcgatcct cgtcgatttc tgggcagagt ggtgcggtcc 240

gtgcaaaatg atcgccccga ttctggatga aatcgctgac gaatatcagg gcaaactgac 300

cgttgcaaaa ctgaacatcg atcaaaaccc tggcactgcg ccgaaatatg gcatccgtgg 360

tatcccgact ctgctgctgt tcaaaaacgg tgaagtggcg gcaaccaaag tgggtgcact 420

gtctaaaggt cagttgaaag agttcctcga cgctaacctg gccagctctg gcgcctccct 480

ggtgccacgc ggatccgaag gagccgccac c 511

<210> 11
<211> 183
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' DNA fragment comprising T7 terminater

<400> 11
gtttcctgtg tgaaattgtt atccgctgct gagttggctg ctgccaccgc tgagcaataa 60

ctagcataac cccttggggc ctctaaacgg gtcttgaggg gtttttttgct gaaaggagga 120

actatatccg gataacctcg agctgcaggc atgcaagctt ggggctggga acgaggacag 180

cgg 183

<210> 12
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> universal primer for 2nd PCR

<400> 12
gccgctgtcc tcgttcccag cc 22

<210> 13
<211> 760
<212> DNA
<213> Artificial Sequence

<220>
<223> double stranded linear DNA coding for CAT protein

<400> 13

ggcgtataca tatggagaaa aaaatcactg gatataccac cgttgatata tcccaatggc 60

atcgtaaaga acattttgag gcatttcagt cagttgctca atgtacctat aaccagaccg 120

ttcagctgga tattacggcc tttttaaaga ccgtaaagaa aaataagcac aagttttatc 180

cggcctttat tcacattctt gcccgcctga tgaatgctca tccggaattc cgtatggcaa 240

tgaaagacgg tgagctggtg atatgggata gtgttcaccc ttgttacacc gttttccatg 300

agcaaactga aacgttttca tcgctctgga gtgaatacca cgacgatttc cggcagtttc 360

tacacatata ttcgcaagat gtggcgtgtt acggtgaaaa cctggcctat ttccctaaag 420

ggtttattga gaatatgttt ttcgtctcag ccaatccctg ggtgagtttc accagttttg 480

atttaaacgt ggccaatatg gacaacttct tcgcccccgt tttcaccatg ggcaaatatt 540

atacgcaagg cgacaaggtg ctgatgccgc tggcgattca ggttcatcat gccgtctgtg 600

atggcttcca tgtcggcaga atgcttaatg aattacaaca gtactgcgat gagtggcagg 660

gcggggcgta attttttaa ggcagttatt ggtgcccttа aacgtcgacc ggctgctaac 720

aaagcccgaa agggtttcct gtgtgaaatt gttatccgct 760

<210> 14
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' primer-2 for CAT

<400> 14
gaaggagccg ccaccatgga gaaaaaaatc actggatata c 41

<210> 15
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' primer-2 for 1A2

<400> 15
gaaggagccg ccaccatgct caaagtcacg gtgccc 36

<210> 16
<211> 35
<212> DNA
<213> Artificial Sequence

<220>

<223> 5' primer-2 for 1B2

<400> 16
gaaggagccg ccaccatgga ggagcagcgc tgttc 35

<210> 17
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' primer-2 for 1C8

<400> 17
gaaggagccg ccaccatggc ccgaaccaag cagac 35

<210> 18
<211> 38
<212> DNA
<213> Artificial Sequence

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<223> 5' primer-2 for 1D2

<400> 18
gaaggagccg ccaccatggg tgttgacaaa atcattcc 38

<210> 19
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' primer-2 for 1D9

<400> 19
gaaggagccg ccaccatgtt ggagacctac agcaacc 37

<210> 20
<211> 34
<212> DNA
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<223> 5' primer-2 for 1D10

<400> 20
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<210> 21
<211> 36
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<223> 5' primer-2 for 1E4

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<210> 22
<211> 36
<212> DNA
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<223> 5' primer-2 for 1G4

<400> 22
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<210> 23
<211> 36
<212> DNA
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<223> 5' primer-2 for 1H1

<400> 23
gaaggagccg ccaccatggt gaaggtcggt gtgaac 36

<210> 24
<211> 32
<212> DNA
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<220>
<223> 5' primer-2 for 1H5

<400> 24
gaaggagccg ccaccatggc caacagtgag cg 32

<210> 25
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> His tag

<400> 25

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1 5 10